ABSTRACT OF THE DISCLOSURE

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The problems can be solved by ensuring that Ga \(\) Gb \(\) Gc or Ga \(\) Gb \(\) Gc, wherein Ga denotes a clearing between the bore on the portion from the compression chamber of the high pressure pump to the cylindrical groove and the plunger, where a transverse aperture is connected with the bore through a cylindrical groove provided halfway through the bore of a cylinder; Gb a clearance closer to the cylindrical groove, out of the clearances between the bore from the cylindrical groove to the drive source side and the plunger; and Gc a clearance closer to the drive source side, out of the clearances between the bore from the cylindrical groove to the drive source side and the plunger.